The Journal of Infectious Diseases

An Official Publication of the Infectious Diseases Society of America

Martha D. Yow, *Editor*
Robert B. Couch, *Associate Editor*
David J. Drutz, *Associate Editor*
Herbert L. DuPont, *Associate Editor*
Ralph D. Feigin, *Associate Editor*
Daniel M. Musher, *Associate Editor*
Robert R. Rich, *Associate Editor*

Dale R. Spriggs, *Managing Editor*
Helen Varley Sargan, *Production Editor*
Elizabeth E. Roth, *Editorial Assistant*
Debbie L. White, *Editorial Projects Coordinator*

EDITORIAL BOARD

E. Russell Alexander, Atlanta, Ga.
Robert H. Alford, Nashville, Tenn.
Ward E. Bullock, Cincinnati, Ohio
J. Robert Cantey, Charleston, S.C.
Richard Diamond, Boston, Mass.
Raphael Dolin, Rochester, N.Y.
Sydney M. Finegold, Los Angeles, Calif.
King K. Holmes, Seattle, Wash.
Gerald T. Keusch, Boston, Mass.
Franklin A. Neva, Bethesda, Md.
Edward L. Pesanti, Newington, Conn.
P. Frederick Sparling, Chapel Hill, N.C.

VOLUME 150
JULY-DECEMBER 1984

All rights reserved
THE UNIVERSITY OF CHICAGO PRESS, CHICAGO
THE UNIVERSITY OF CHICAGO PRESS LTD., LONDON SW1

© 1984 BY THE UNIVERSITY OF CHICAGO
PUBLISHED MONTHLY JULY–DECEMBER

Printed in U.S.A.

The Journal of Infectious Diseases

Volume 150 • *July 1984* • *Number 1*

CONTENTS

Original Articles

A Collaborative Study of Patient-Initiated Treatment of Recurrent Genital Herpes with Topical Acyclovir or Placebo	James P. Luby, John W. Gnann, Jr., W. James Alexander, Virgil A. Hatcher, Alvin E. Friedman-Kien, Richard J. Klein, Harry Keyserling, Andre Nahmias, John Mills, Julius Schachter, John M. Douglas, Lawrence Corey, and Stephen L. Sacks	1
The Effects of Acyclovir on Antibody Response to Herpes Simplex Virus in Primary Genital Herpetic Infections	David I. Bernstein, Michael A. Lovett, and Yvonne J. Bryson	7
Analysis in Human Neonates of Defective Antibody-Dependent Cellular Cytotoxicity and Natural Killer Cytotoxicity to Herpes Simplex Virus–Infected Cells	Steve Kohl, Lian S. Loo, and Bernard Gonik	14
Transfer of Tetracycline or Clindamycin Resistance Among Strains of *Bacteroides fragilis* in Experimental Abscesses	Edward Butler, Keith A. Joiner, Michael Malamy, John C. Bartlett, and Francis P. Tally	20
Evidence for an Epidemic Trimethoprim-Resistance Plasmid in Fecal Isolates of *Escherichia coli* from Citizens of the United States Studying in Mexico	R. Patrick Rudy and Barbara E. Murray	25
Plasmid-Mediated Resistance in Multiply Resistant *Haemophilus influenzae* Type b Causing Meningitis: Molecular Characterization of One Strain and Review of the Literature	Paul M. Mendelman, Carol A. Doroshow, Shawna L. Gandy, Vassiliki Syriopoulou, Christine P. Weigen, and Arnold L. Smith	30
Fimbriation of *Haemophilus* Species Isolated from the Respiratory Tract of Adults	Michael A. Apicella, Marlene Shero, Kathleen C. Dudas, Richard R. Stack, Wayne Klohs, Leonard J. LaScolea, Timothy F. Murphy, and Joseph M. Mylotte	40
Serological Classification of *Neisseria gonorrhoeae* with Use of Monoclonal Antibodies to Gonococcal Outer Membrane Protein I	Joan S. Knapp, Milton R. Tam, Robert C. Nowinski, King K. Holmes, and Eric G. Sandström	44
A Bacterial Respiratory Burst: Stimulation of the Metabolism of *Neisseria gonorrhoeae* by Human Serum	Myron S. Cohen and Marjorie Huck Cooney	49
In Vitro and in Vivo Neutralizing Activity of Human Colostrum and Milk Against Purified Toxins A and B of *Clostridium difficile*	K. Kim, L. K. Pickering, H. L. DuPont, N. Sullivan, and T. Wilkins	57
Absolute Requirement for Complement in Monoclonal IgM Antibody-Mediated Protection Against Experimental Infection with Type III Group B Streptococci	Ann O. Shigeoka, Craig L. Jensen, Seth H. Pincus, and Harry R. Hill	63

Immune Response of Infants and Children to Disseminated Infections with *Neisseria meningitidis*	J. McLeod Griffiss, Brenda L. Brandt, Dennis D. Broud, Diana K. Goroff, and Carol J. Baker	71
Vaginal Colonization with *Staphylococcus aureus*, Positive for Toxic-Shock Marker Protein, and *Escherichia coli* in Healthy Women	Anthony W. Chow, Karen H. Bartlett, Robin Percival-Smith, and Brenda J. Morrison	80
Localization of Urinary Tract Infection in Patients with Spinal Cord Injury	Thomas M. Hooton, Edward J. O'Shaughnessy, Diane Clowers, Larry Mack, Diana D. Cardenas, and Walter E. Stamm	85
A New Animal Model for Human Respiratory Tract Disease Due to Adenovirus	David L. Pacini, Edward J. Dubovi, and Wallace A. Clyde, Jr.	92
Modulation of Semliki Forest Virus–Induced Infection of Mice by Defective-Interfering Virus	A. D. T. Barrett and N. J. Dimmock	98
Lymphoproliferative Changes Induced by Infection with a Lymphotropic Herpesvirus of Guinea Pigs	Kenneth W. Dowler, Stanley McCormick, Jane A. Armstrong, and G. D. Hsiung	105
Passive/Active Immunization Against Hepatitis B	Reinhart Zachoval, Wolfgang Jilg, Bernd Lorbeer, Marion Schmidt, and Friedrich Deinhardt	112
Detection of Hepatitis B Viral DNA in Sera Positive for Antibody to Delta Antigen	L. Theilmann, K. Gmelin, H. Will, P. Czygan, M. Roggendorf, and B. Kommerell	118
Detection of Human Cytomegalovirus in Clinical Specimens by DNA-DNA Hybridization	Stephen A. Spector, Jose A. Rua, Deborah H. Spector, and Robert McMillan	121
The Critical Role of CO_2 in the Morphogenesis of *Coccidioides immitis* in Cell-Free Subcutaneous Chambers	Stephen A. Klotz, David J. Drutz, Milton Huppert, Sung H. Sun, and Peter L. DeMarsh	127
Development of Cellular Immunity in Cutaneous Leishmaniasis Due to *Leishmania tropica*	Michael D. Sadick, Richard M. Locksley, and Howard V. Raff	135
Laboratory Diagnosis of Pneumonia Due to *Streptococcus pneumoniae*	Carl A. Perlino	139
Laboratory Diagnosis of Mediterranean Spotted Fever by Immunofluorescent Demonstration of *Rickettsia conorii* in Cutaneous Lesions	D. Raoult, C. de Micco, H. Gallais, and M. Toga	145
Detection of Varicella-Zoster Viral Antigens in Clinical Specimens by Solid-Phase Enzyme Immunoassay	Thedi Ziegler	149
Efficacy of the Condom as a Barrier to the Transmission of Cytomegalovirus	Steven Katznelson, W. Lawrence Drew, and Lawrence Mintz	155
Correspondence		
Human Interferon-α Production in Homosexual Men with the Acquired Immune Deficiency Syndrome	Jochen Abb and Friedrich Deinhardt	158
Reply	Carlos Lopez, Patricia A. Fitzgerald, and Frederick P. Siegal	158

Chemprophylaxis of Experimental Rabbit Endocarditis with *N*-formimidoyl Thienamycin	Phyllis A. Guze, George M. Kalmanson, Kenji Ishida, Lawrence R. Freedman, and Lucien B. Guze	159
Formylated Chemotactic Peptides Can Mimic the Secondary, Provoking Endotoxin Injection in the Generalized Schwartzman Reaction	J. Fehr, C. Dahinden, and R. Russi	160
Mycoplasma pulmonis in the Brains of Rodents: A Rare Event	D. Taylor-Robinson and P. M. Furr	161
Reply	Auriol Hill	163
Statement of Editorial Policy		164
Instructions to Authors		164

Volume 150 • *August 1984* • *Number 2*

CONTENTS

Perspective

The Common Cold: Control?	Robert B. Couch	167

Original Articles

Intranasal Interferon-α_2 Treatment of Experimental Rhinoviral Colds	Frederick G. Hayden and Jack M. Gwaltney, Jr.	174
Intranasally Applied Recombinant Leukocyte A Interferon in Normal Volunteers. II. Determination of Minimal Effective and Tolerable Dose	Tobias C. Samo, Stephen B. Greenberg, J. Mark Palmer, Robert B. Couch, Maurice W. Harmon, and Paul E. Johnson	181
Short-Duration Exposure and the Transmission of Rhinoviral Colds	D. J. D'Alessio, C. K. Meschievitz, J. A. Peterson, C. R. Dick, and E. C. Dick	189
A Model for Obtaining Predictable Natural Transmission of Rhinoviruses in Human Volunteers	C. K. Meschievitz, S. B. Schultz, and E. C. Dick	195
Hypoprothrombinemia in Febrile, Neutropenic Patients with Cancer: Association with Antimicrobial Suppression of Intestinal Microflora	J. M. Conly, K. Ramotar, H. Chubb, E. J. Bow, and T. J. Louie	202
Production of Menaquinones by Intestinal Anaerobes	K. Ramotar, J. M. Conly, H. Chubb, and T. J. Louie	213
Pertussis Toxin and Extracytoplasmic Adenylate Cyclase as Virulence Factors of *Bordetella pertussis*	Alison A. Weiss, Erik L. Hewlett, Gwendolyn A. Myers, and Stanley Falkow	219
Mediation of the Killing of Rough, Mucoid Isolates of *Pseudomonas aeruginosa* from Patients with Cystic Fibrosis by the Alternative Pathway of Complement	Gerald B. Pier and Peter Ames	223

Nosocomial Meningitis Due to *Citrobacter diversus* in Neonates: New Aspects of the Epidemiology	Walter W. Williams, Joseph Mariano, Margaret Spurrier, H. Denny Donnell, Jr., Robert L. Breckenridge, Jr., Roger L. Anderson, I. Kaye Wachsmuth, Clyde Thornsberry, Donald R. Graham, Donald W. Thibeault, and James R. Allen	229
The Significance of Hospitals as Reservoirs for Endemic Multiresistant *Salmonella typhimurium* Causing Infection in Urban Brazilian Children	Lee W. Riley, Beatriz S. O. Ceballos, Luiz R. Trabulsi, M. Regina Fernandes de Toledo, and Paul A. Blake	236
Herpes Simplex Virus Type-2 Glycoprotein-Subunit Vaccine: Tolerance and Humoral and Cellular Responses in Humans	G. J. Mertz, G. Peterman, R. Ashley, J. L. Jourden, D. Salter, L. Morrison, A. McLean, and L. Corey	242
Reduction in Risk of Hepatitis Transmission by Heat-Treatment of a Human Factor VIII Concentrate	F. Blaine Hollinger, Gary Dolana, William Thomas, and Ferenc Gyorkey	250
Prolonged Incubation Period of AIDS in Intravenous Drug Abusers: Epidemiological Evidence in Prison Inmates	J. P. Hanrahan, G. P. Wormser, A. A. Reilly, B. H. Maguire, G. Gavis, and D. L. Morse	263
Defective Polymorphonuclear Leukocyte Chemotaxis in Homosexual Men with Persistent Lymph Node Syndrome	F. H. Valone, D. G. Payan, D. I. Abrams, and E. J. Goetzl	267
Diagnosis of Cytomegaloviral Pneumonia by in Situ Hybridization	David Myerson, Robert C. Hackman, and Joel D. Meyers	272
Liposome-Encapsulated Amphotericin B for Treatment of Disseminated Candidiasis in Neutropenic Mice	G. Lopez-Berestein, R. L. Hopfer, R. Mehta, K. Mehta, E. M. Hersh, and R. L. Juliano	278
Parasitological, Hematologic, and Immunologic Responses in Acute and Chronic Infections of Dogs with *Ancylostoma ceylanicum:* A Model of Human Hookworm Infection	Simon M. Carroll and David I. Grove	284
Institutional Report		
Summary of the National Institutes of Health Research Workshop on the Epidemiology of the Acquired Immunodeficiency Syndrome (AIDS)	Robert Edelman	295
Correspondence		
Synergy Assessment with Growth Curves	Morris C. Berenbaum	304
Enterococcal Meningitis: Failure of Treatment with Ampicillin and Chloramphenicol	Frank R. Venezio, Diane Masters, and Paul O'Keefe	305
Five-year Absence of *Pneumocystis carinii* Pneumonitis in a Pediatric Oncology Center	Walter T. Hughes	305
Susceptibility to Acyclovir of Oka-Strain Varicella Vaccine and Vaccine-Derived Viruses Isolated from Immunocompromised Patients	Kimiyasu Shiraki, Koichi Yamanishi, and Michiaki Takahashi	306

Treatment of Bilharzial Obstructive Uropathy with Praziquantel — Z. Farid, N. Ayad El-Masry, S. Bassily, B. Trabolsi, and C. K. Wallace — 307

Notices — 309

Volume 150 • *September 1984* • *Number 3*

CONTENTS

Original Articles

Use of an Artificial Antigen Containing the 3,6-di-*O*-methyl-β-D-glucopyranosyl Epitope for the Serodiagnosis of Leprosy — S. N. Cho, T. Fujiwara, S. W. Hunter, T. H. Rea, R. H. Gelber, and P. J. Brennan — 311

Infections Caused by Herpes Simplex Virus in the Immunocompromised Host: Natural History and Topical Acyclovir Therapy — Richard J. Whitley, Myron Levin, Nancy Barton, Brenda J. Hershey, Gray Davis, Ronald E. Keeney, John Whelchel, Arnold G. Diethelm, Paula Kartus, and Seng-Jaw Soong — 323

Lymphocyte Subsets and Urinary Excretion of Cytomegalovirus Among Homosexual Men Attending a Clinic for Sexually Transmitted Diseases — Stephen B. Greenberg, Steven Linder, Barbara Baxter, Elizabeth Faris, Donald M. Marcus, and Gordon Dreesman — 330

Use of Deglycerolized Red Blood Cells to Prevent Posttransfusion Infection with Cytomegalovirus in Neonates — Michael T. Brady, John D. Milam, Donald C. Anderson, Edith P. Hawkins, Michael E. Speer, Diane Seavy, Hedy Bijou, and Martha D. Yow — 334

Induction of Acute Myoclonic Encephalopathy in Hamsters by Subacute Sclerosing Panencephalitis Virus — Takahiro Sugita, Kimiyasu Shiraki, Shigeharu Ueda, Nobuzo Iwa, Hisako Shoji, Minoru Ayata, and Shiro Kato — 340

Blocking of Influenza Virus–Induced Cell-Mediated Cytotoxicity by Hemagglutinin-Specific Monoclonal Antibody — Dominic M. Justewicz, Jacqueline Lecomte, and Rosemonde Mandeville — 348

Transfer and Persistence of Viral Antibody–Producing Cells in Bone Marrow Transplantation — Britta Wahren, Gösta Gahrton, Annika Linde, Per Ljungman, Berit Lönnqvist, Olle Ringdén, and Vivi-Anne Sundqvist — 358

Increased Energy Expenditure by Granulocytes During Phagocytosis of *Staphylococcus aureus* Compared with Other Staphylococci — Costantino Eftimiadi and Giovanni Rialdi — 366

Trimethoprim-Sulfamethoxazole in the Prevention of Infection in Neutropenic Patients — EORTC International Antimicrobial Therapy Project Group — 372

Kinetics of Endotoxin Release During Antibiotic Therapy for Experimental Gram-Negative Bacterial Sepsis — Jerry L. Shenep and Kathryn A. Mogan — 380

Isolates of *Neisseria meningitidis* from Different Sites in the Same Patient: Phenotypic and Genomic Studies, with Special Reference to Adherence, Piliation, and DNA Restriction Endonuclease Pattern	Bjørn-Erik Kristiansen, Birger Sørensen, Terje Simonsen, Oddvar Spanne, Vera Lund, and Bjarne Bjorvatn	389
Conjugation of Plasmids of *Neisseria gonorrhoeae* to other *Neisseria* Species: Potential Reservoirs for the β-Lactamase Plasmid	Caroline Attardo Genco, Joan S. Knapp, and Virginia L. Clark	397
Safety and Immunogenicity of *Haemophilus influenzae* Type B Polysaccharide–Diphtheria Toxoid Conjugate Vaccine in Adults	Martha L. Lepow, Joel S. Samuelson, and Lance K. Gordon	402
Antitoxin Levels in Botulism Patients Treated with Trivalent Equine Botulism Antitoxin to Toxin Types A, B, and E	Charles H. Hatheway, John D. Snyder, Jerry E. Seals, Timm A. Edell, and George E. Lewis, Jr.	407
Resistance of *Vibrio vulnificus* to Serum Bactericidal and Opsonizing Factors: Relation to Virulence in Suckling Mice and Humans	David E. Johnson, Frank M. Calia, Daniel M. Musher, and Allen Goree	413
Hematologic Changes in Brucellosis	E. Crosby, L. Llosa, M. Miro Quesada, C. Carrillo P., and E. Gotuzzo	419
Immunity to Infection with *Salmonella typhimurium*: Mouse-Strain Differences in Vaccine- and Serum-Mediated Protection	Toby K. Eisenstein, Loran M. Killar, and Barnet M. Sultzer	425
Reexamination of the Protective Role of the Capsular Polysaccharide (Vi antigen) of *Salmonella typhi*	Joan D. Robbins and John B. Robbins	436
Seroepidemiology of Hepatitis B in Tennessee Prisoners	Michael D. Decker, William K. Vaughn, Jamie S. Brodie, Robert H. Hutcheson, Jr., and William Schaffner	450
Concise Laboratory and Clinical Communications		
Seroepidemiology of Hepatitis A in Tennessee Prisoners	Michael D. Decker, William K. Vaughn, Jamie S. Brodie, Robert H. Hutcheson, Jr., and William Schaffner	460
Correspondence		
Levels of Neutralizing and Binding Antibodies to Hepatitis A Virus after Onset of Icterus: A Comparison	Bertram Flehmig, Jürgen Zahn, and Angelika Vallbracht	461
Hepatitis B Virus DNA in Serum of Pregnant Women with HBsAg and HBeAg or Antibodies to HBe	R. A. Heijtink, P. J. Boender, and S. W. Schalm, N. Masurel	462
Notice		463

Volume 150 • *October 1984* • *Number 4*

CONTENTS

Perspective

Rocky Mountain Spotted Fever: Epidemiological and Early Clinical Signs are Keys to Treatment and Reduced Mortality — Theodore E. Woodward — 465

Original Articles

Epidemiology of Rocky Mountain Spotted Fever as Determined by Active Surveillance — Catherine M. Wilfert, J. Newton McCormack, Karl Kleeman, Robert N. Philip, Ernest Austin, Vivian Dickinson, and Lou Turner — 469

Rocky Mountain Spotted Fever: Clinical, Laboratory, and Epidemiological Features of 262 Cases — Charles G. Helmick, Kenneth W. Bernard, and Lawrence J. D'Angelo — 480

Incidence and Cumulative Frequency of Endemic Lyme Disease in a Community — John P. Hanrahan, Jorge L. Benach, James L. Coleman, Edward M. Bosler, Dale L. Morse, Donald J. Cameron, Robert Edelman, and Richard A. Kaslow — 489

Interactions of Phagocytes with the Lyme Disease Spirochete: Role of the Fc Receptor — Jorge L. Benach, Howard B. Fleit, Gail S. Habicht, James L. Coleman, Edward M. Bosler, and Bernard P. Lane — 497

Comparison of Strains of *Legionella pneumophila* Serogroup 1 Isolated in Four Amsterdam Hospitals from Patients and Hot-Water Supplies — O. G. Zanen-Lim, N. J. van den Broek, P. J. G. M. Rietra, and H. C. Zanen — 508

Plasmid Transfer into Members of the Family Leigonellaceae — Grace C. C. Chen, Michael Lema, and Arnold Brown — 513

Infectious Mononucleosis: A Polyclonal B Cell Transformation in Vivo — Nathaniel Brown, Douglas Smith, George Miller, James Niederman, Chunren Liu, and James Robinson — 517

Immunologic and Electrophysiological Response to Cytomegaloviral Inner Ear Infection in the Guinea Pig — Jeffrey P. Harris, Nigel K. Woolf, Allen F. Ryan, David M. Butler, and Douglas D. Richman — 523

Serological Responses among Teenagers after Natural Exposure to Norwalk Virus — Roy C. Baron, Harry B. Greenberg, George Cukor, and Neil R. Blacklow — 531

Study of Staphylococcal Toxic Shock Syndrome Toxin in Human Epithelial Cell Culture — Vladimir M. Kushnaryov, Merlin S. Bergdoll, Hector S. MacDonald, Jennifer Vellinga, and Raoul Reiser — 535

Foreign Body Infection: Role of Fibronectin as a Ligand for the Adherence of *Staphylococcus aureus* — P. Vaudaux, R. Suzuki, F. A. Waldvogel, J. J. Morganthaler, and U. E. Nydegger — 546

Effect of Insulin Treatment on the Susceptibility of the Diabetic Rat to *Escherichia coli*-Induced Pyelonephritis — Matthew E. Levison and Peter G. Pitsakis — 554

Virulence-Associated Traits in *Escherichia coli* Causing First and Recurrent Episodes of Urinary Tract Infection in Children With or Without Vesicoureteral Reflux	Helena Lomberg, Mikael Hellström, Ulf Jodal, Hakon Leffler, Knut Lincoln, and Catharina Svanborg Edén	561
Protection Against Infection with *Pseudomonas aeruginosa* by Passive Transfer of Monoclonal Antibodies to Lipopolysaccharides and Outer Membrane Proteins	Shuzo Sawada, Masahiko Suzuki, Takahashi Kawamura, Shigeki Fujinaga, Yasuhiko Masuho, and Katsuhiko Tomibe	570
Establishment of Genital Tract Infection in the CF-1 Mouse by Intravaginal Inoculation of a Human Oculogenital Isolate of *Chlamydia trachomatis*	James I. Ito, Jr., H. Robert Harrison, E. Russell Alexander, and Lucy J. Billings	577
Demonstration of Differences Between Strains of *Staphylococcus aureus* by Peptidoglycan Fingerprinting	Asher Barzilai, Alexander C. Hyatt, and David S. Hodes	583
Streptococcus durans: An Unexpected Enteropathogen of Foals	Saul Tzipori, Jane Hayes, Les Sims, and Maree Withers	589
Ketoconazole Inhibition of Intracellular Multiplication of *Trypanosoma cruzi* and Protection of Mice Against Lethal Infection with the Organism	Robert E. McCabe, Jack S. Remington, and Fausto G. Araujo	594
Efficacy of Pyrazolopyrimidine Ribonucleosides Against *Trypanosoma cruzi:* Studies in Vitro and in Vivo with Sensitive and Resistant Strains	R. L. Berens, J. J. Marr, D. L. Looker, D. J. Nelson, and S. W. LaFon	602
Institutional Report		
Surveillance of Rocky Mountain Spotted Fever in the United States, 1981–1983	Daniel B. Fishbein, Jonathan E. Kaplan, Kenneth W. Bernard, and William G. Winkler	609
Concise Clinical and Laboratory Communications		
Intralesional Administration of Large Doses of Human Leukocyte Interferon for tl.e Treatment of Condylomata Acuminata	Jeremy R. Geffen, Richard J. Klein, and Alvin E. Friedman-Kien	612
Correspondence		
Failure to Detect Endotoxin in Sera from Patients with Lyme Disease	George P. Schmid, Louis Verardo, Anita K. Highsmith, and Jason S. Weisfeld	616
Possible Prevention of Tick-Borne Relapsing Fever in Patients Infected with *Borrelia recurrentis*	Eithan Galun and Eldad Ben-Chetrit	617
Leukonychia Partialis in Kawasaki Disease	Silvia Iosub and Donald S. Gromisch	617
Antigenic Relatedness of Human Enteric Coronavirus Strains to Human Coronavirus OC43: A Preliminary Report	Goiuseppe Gerna, Nilda Passerani, Paolo Martino Cereda, and Massimo Battaglia	618
Pneumocystis carinii in Germ-Free Rats	Linda L. Pifer	619
The Presence of Curved Anaerobic Bacteria in Nonspecific Vaginosis	Vincent A. Spagna	620
Reply	Carol A. Speigel and King K. Holmes	620

Errata

(1984;149:538–43) 621

(1984;150:1–6) 621

Notices 622

Volume 150 • *November 1984* • *Number 5*

CONTENTS

Original Articles

Treatment of Serious Gram-Negative Infections with Aztreonam — Richard N. Greenberg, Patrick M. Reilly, Kevin L. Luppen, Ray McMillian, Margaret Bollinger, Stephen M. Wolk, Thakorbhai B. Darji, and Amir A. Noorani — 623

The Intrarenal Distribution of Aztreonam in Healthy and Diseased Kidneys: Clinical Therapeutic Implications — Alan J. S. Watson, Robert L. Stout, and Andrew Whelton — 631

Selective Decontamination of the Digestive Tract with Aztreonam: A Study of 10 Healthy Volunteers — H. G. de Vries-Hospers, G. W. Welling, E. A. Swabb, and D. van der Waaij — 636

Chlorpromazine Inhibits Neutrophil Chemotaxis Beyond the Chemotactic Receptor–Ligand Interaction — Kristine M. Lohr, James B. Feix, and Carole Kurth — 643

The Biochemistry of Opsonization: Central Role of the Reactive Thiolester of the Third Component of Complement — Margaret K. Hostetter, Ronald A. Krueger, and David J. Schmeling — 653

Antibody Responses to Toxic-Shock-Syndrome (TSS) Toxin by Patients with TSS and by Healthy Staphylococcal Carriers — Peter F. Bonventre, Calvin Linnemann, Lana S. Weckbach, Joseph L. Staneck, C. Ralph Buncher, Ellen Vigdorth, Harry Ritz, Douglas Archer, and Bennett Smith — 662

Correlation of Subtypes of *Legionella pneumophila* Defined by Monoclonal Antibodies with Epidemiological Classification of Cases and Environmental Sources — Jean R. Joly and Washington C. Winn — 667

Differentiation of B15 Strains of *Neisseria meningitidis* by DNA Restriction Endonuclease Fingerprinting — Bjørn-Erick Kristiansen, Bjarne Bjorvaten, Vera Lund, Bjørn Lundqvist, and Eirik Holten — 672

Development of a DNA Probe for the Structural Gene of the 2″-*O*-Adenyltransferase Aminoglycoside-Modifying Enzyme — F. C. Tenover, T. D. Gootz, K. P. Gordon, L. S. Tompkins, S. A. Young, and J. J. Plorde — 678

A Virulence Plasmid in *Escherichia coli* Enterotoxigenic for Humans: Intergenetic Transfer and Expression — T. Yamamoto, T. Honda, T. Miwatani, and T. Yokota — 688

Incidence of Trimethoprim-Sulfamethoxazole–Resistant Enterobacteriaceae among Transplant Recipients — Carol L. Wells, Raymond P. Podzorski, Phillip K. Peterson, Norma K. Ramsay, Richard L. Simmons, and Frank S. Rhame — 699

Characteristics of Autoantibodies to Human Interferon in a Patient with Varicella-Zoster Disease	Bruno Pozzetto, Knud Erik Mogensen, Michael G. Tovey, and Ion Gresser	707
Occurrence of AUSAB Test Positivity Unrelated to Prior Exposure to Hepatitis B Virus	Betsy Brotman and Alfred M. Prince	714
Production of Experimental Endocarditis by Coagulase-Negative Staphylococci: Variability in Species Virulence	Larry M. Baddour, Gordon D. Christensen, Martha G. Hester, and Alan L. Bisno	721
Epidemic Outbreaks of Acute Pyelonephritis Caused by Nosocomial Spread of P Fimbriated *Escherichia coli* in Children	Kjell Tullus, Karin Hörlin, Stefan B. Svenson, and Gunilla Källenius	728
Attachment to and Invasion of Human Fallopian Tube Mucosa by an IgA1 Protease-Deficient Mutant of *Neisseria gonorrhoeae* and Its Wild-Type Parent	Morris D. Cooper, Zell A. McGee, Martha H. Mulks, J. Michael Koomey, and Travis L. Hindman	737
Immune Mechanisms in Chlamydial Eye Infection: Cellular Immune Responses in Chronic and Acute Disease	Elaine Young and Hugh R. Taylor	745
In Vivo Bronchoalveolar Macrophage Defense Against *Rhizopus oryzae* and *Aspergillus fumigatus*	Alayn R. Waldorf, Stuart M. Levitz, and Richard D. Diamond	752
Functional and Quantitative Alterations in T Lymphocyte Subpopulations in Acute Toxoplasmosis	Benjamin J. Luft, Geoffrey Kansas, Edgar G. Engelman, and Jack S. Remington	761
Enteric Lesions and Diarrhea in Gnotobiotic Calves Monoinfected with *Cryptosporidium* Species	J. Heine, J. F. L. Pohlenz, H. W. Moon, and G. N. Woode	768
Concise Laboratory and Clinical Communications		
Intravenous Lymphoblastoid Interferon and Acyclovir for Treatment of Cytomegaloviral Pneumonia	David H. Shepp, Barbara A. Newton, and Joel D. Meyers	776
Effectiveness of Adenine Arabinoside Therapy for Herpes Simplex Infection	Steve Kohl	777
Biphasic, Concentration-Dependent and Rate-Limited, Concentration-Independent Bacterial Killing by an Aminoglycoside Antibiotic	Rodger D. MacArthur, Valentina Lolans, Fred A. Zar, and George Gee Jackson	778
In Vitro Activity of Various Cephalosporins Against *Pseudomonas pseudomallei*	L. R. Ashdown and R. J. Frettingham	779
Sulfamethoxazole-Trimethoprim Treatment of Guinea Pigs Infected with *Legionella pneumophila*	Joseph F. Plouffe, Michael F. Para, and Gary E. Bollin	780
Rhabdomyolysis and Acute Renal Failure: A New Presentation of Acute Brucellosis	Judith N. Wasserheit, D. C. Dugdale, and Jan M. Agosti	782
Myositis and Rhabdomyolysis Due to *Staphylococcus aureus* Septicemia	Robert Lannigan, Thomas W. Austin, and Judith Vestrup	784
Correspondence		
Rapidity of Booster Response to Rabies Vaccine Produced in Cell Culture	Byron S. Berlin and Claude Goswick	785
Susceptibility of Hospital Personnel to Varicella-Zoster Virus	Ziad M. Shehab and Philip A. Brunell	786

Experimental Transmission of the Lyme Disease Spirochete to Rabbits — Jorge L. Benach, Edward M. Bosler, James L. Coleman, and Gail S. Habicht — 786

A Comparison of Neutralizing and Antigen-Binding Assays for Human Antibodies Against Toxic-Shock-Syndrome Toxin I — Akiko Hirose-Kumagi, Frederick H. Whipple, Takashi Ikejima, Charles A. Dinarello, D. Michael Gill, Harry L. Ritz, and Gary G. Bond — 788

Isolation of *Campylobacter jejuni* from Milk During an Outbreak of Campylobacteriosis — Paul J. Hudson, Richard L. Vogt, Jack Brodnum, and Charlotte M. Patton — 789

Usefulness of Serotyping in the Epidemiology of Family Outbreaks of *Campylobacter jejuni* — F. T. H. Chan, A. M. R. MacKenzie, J. L. Penner, and J. N. Hennessy — 790

Rotaviral Infection and Intestinal Lactase Level — S. C. Arya — 791

From the Infectious Diseases Society of America

Statement on Ethical Conduct in Research — 792

Errata

1984;**149**:935–41 — 794

Notices — 795

Volume 150 • *December 1984* • *Number 6*

CONTENTS

Original Articles

Curbside Consultation in Infectious Diseases: A Prospective Study — Joseph P. Myers — 797

The Use of an Antibiotic Order Form for Antibiotic Utilization Review: Influence on Physicians' Prescribing Patterns — Roger M. Echols and Steven F. Kowalsky — 803

Epidemiology of Endemic *Pseudomonas aeruginosa:* Why Infection Control Efforts Have Failed — Bruce Olson, Robert A. Weinstein, Catherine Nathan, William Chamberlin, and Sherwin A. Kabins — 808

Prevention of Fatal Experimental Burn-Wound Sepsis Due to *Klebsiella pneumoniae* KP1-O by Immunization with Homologous Capsular Polysaccharide — S. J. Cryz, Jr., E. Fürer, and R. Germanier — 817

Protective Activities of the Filamentous Hemagglutinin and the Lymphocytosis-Promoting Factor of *Bordetella pertussis* in Mice — Masaaki Oda, James L. Cowell, Don G. Burstyn, and Charles R. Manclark — 823

Live Attenuated Influenza A Virus Vaccines in Children: Results of a Field Trial — Robert B. Belshe, Lee P. Van Voris, Julie Bartram, and Frances K. Crookshanks — 834

Avian-Human Reassortant Influenza A Viruses Derived by Mating Avian and Human Influenza A Viruses	Brian R. Murphy, Alicia J. Buckler-White, William T. London, James Harper, Eveline L. Tierney, Nanette T. Miller, Linda J. Reck, Robert M. Chanock, and Virginia S. Hinshaw	841
Parainfluenza Virus Type 3: Seasonality and Risk of Infection and Reinfection in Young Children	W. Paul Glezen, Arthur L. Frank, Larry H. Taber, and Julius A. Kasel	851
Studies of Echovirus-12 in Volunteers: Determination of Minimal Infectious Dose and the Effect of Previous Infection on Infectious Dose	Gilbert M. Schiff, Gerda M. Stefanović, Elizabeth C. Young, Donna S. Sander, Julia K. Pennekamp, and Richard L. Ward	858
Paradoxical Effects of Interferon on Reactivation of Oral Infection with Herpes Simplex Virus after Microvascular Decompression for Trigeminal Neuralgia	Monto Ho, George J. Pazin, John A. Armstrong, Harry S. Haverkos, J. Stephen Dummer, and Peter J. Jannetta	867
Frequency and Duration of Patient-Observed Recurrent Genital Herpes Simplex Virus Infection: Characterization of the Nonlesional Prodrome	Stephen L. Sacks	873
Infectious Mononucleosis–Like Response in Common Marmosets Infected with Epstein-Barr Virus	Nina Wedderburn, Joan M. B. Edwards, Claude Desgranges, Claude Fontaine, Bertram Cohen, and Guy de Thé	878
Relation of Titers of Antibodies to CMV in Blood Donors to the Transmission of Cytomegalovirus Infection	Janet S. Beneke, Gary E. Tegtmeier, Harvey J. Alter, Renate B. Luetkemeyer, Rachel Solomon, and William L. Bayer	883
Antigenic Difference Between Viral Strains Causing Classical and Mild Types of Epidemic Hemorrhagic Fever with Renal Syndrome	Gan Song, Chang-shou Hang, Hua-xin Liao, Jian-lin Fu, Guang-zhong Gao, Hui-ling Qiu, and Quan-fu Zhang	889
Hemagglutination-Inhibiting Antibody in Hemorrhagic Fever with Renal Syndrome	T. F. Tsai, Yi Wei Tang, Shan Lian Hu, Ke Long Ye, Guo Liang Chen, and Zhi Yi Xu	895
Distribution and Spread of Colonic Lesions in Shigellosis: A Colonoscopic Study	Peter Speelman, Iqbal Kabir, and Moyenul Islam	899
Clindamycin Activity Against Chloroquine-Resistant *Plasmodium falciparum*	Lavanya S. Seaberg, Arlene R. Parquette, Ilya Y. Gluzman, Grady W. Phillips, Jr., Thomas F. Brodasky, and Donald J. Krogstad	904
A Whole-Blood Lymphocyte Stimulation Test for the Diagnosis of Human Tularemia	Hannu Syrjälä, Elja Herva, Jorma Ilonen, Kirsi Saukkonen, and Aimo Salminen	912
Observations on the Measurement and Evaluation of Endotoxemia by a Quantitative Limulus Lysate Microassay	J. Cohen and J. S. McConnell	916
A Role for Hemolysin in *Escherichia coli*–Induced Inflammation in Granulocytopenic Rabbits	Andrew C. Issekutz, Murray Ripley, Yvan Rochon, Enid Pi-Jimenez, and Bruce Wright	925

Neonatal Meningitis Caused by *Escherichia coli* in The Netherlands	Chris J. J. Mulder, Loek van Alphen, and H. C. Zanen	935
Institutional Report		
Summary of a Workshop on New and Useful Methods in Rapid Viral Diagnosis	Douglas Richman, Nathalie Schmidt, Stanley Plotkin, Robert Yolken, Max Cherensky, Kenneth McIntosh, and Martha Mattheis	941
Concise Laboratory and Clinical Communications		
Multiple Infections by Cytomegalovirus in Patients With Acquired Immunodeficiency Syndrome: Documentation by Southern Blot Hybridization	W. Lawrence Drew, Edward S. Sweet, Richard C. Miner, and Edward S. Mocarski	952
Identification of Multiple Cytomegalovirus Strains in Homosexual Men with Acquired Immunodeficiency Syndrome	Stephen A. Spector, Ken K. Hirata, and Thomas R. Neuman	953
Replication of Human Cytomegalovirus in Endothelial Cells	David D. Ho, Teresa R. Rota, Charla A. Andrews, and Martin S. Hirsch	956
An Outbreak of Mouth Ulcers in an Institution for Mentally Retarded Persons	Ida M. Onorato, David M. Morens, Jane E. Ballard, Cherie L. Howry, John A. Stewart, and Jack Allard	957
In Vivo Production of Human Hybridoma Antibody to the *Haemophilus influenzae* B Capsule in Athymic Nude Mice	Richard A. Insel	959
Effect of Murine Interferon Gamma on Murine Toxoplasmosis	Robert E. McCabe, Benjamin J. Luft, and Jack S. Remington	961
Correspondence		
Yersinia enterocolitica Septicemia During Long-Term Immunosuppressive Treatment	Thomas Lenz, Karl-Ludwig Schulte, and Wolfgang Meyer-Sabellek	963
Serum Lipids in Patients With Leptospirosis	J.-M. Estavoyer, B. Stimmesse, Y. Ottignon, N. Cardot, A. Boillot, and M.-J. Dupont	963
Caterpillar Infestation in a Diabetic Patient	John F. Anderson, Robert W. Lyons, and Kenneth A. Welch	964
Intestinal Parasites in Haitian Entrants	James D. Moore and Sallie H. Buster	965
Notices		966
Reviewers for Volume 150		967
Index for Volume 150		971